



PATENT ABSTRACTS OF JAPAN

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(71) Applicant:

KAYABA IND CO LTD

(72) Inventor:

MIZUNO NAOKI NAKAMURA TAKAAKI

IKOMA AKIHISA

(54) SEAL MECHANISM

(57) Abstract:

PURPOSE: To prevent a seal member from extruding or being nipped, by setting an angle between an inclined plane and a sliding surface to a range of 40W70° as well as setting a ratio of length ranging from the sliding surface to the bottom of a seal groove and a heel part of the seal member to a range of 0.08W0.4.

CONSTITUTION: A groove 1 is formed in one side of a seal member X, and a lip 2 is formed in the upper part of the groove 1, while a slope 3 is formed at the side opposite to the groove 1, and an inclined plane 4 is formed at the opposite side to the side where high pressure acts. An angle a made up between a sliding surface 6 and the inclined plane 4 is set to $40^{\circ} < \alpha < 70^{\circ}$, and both of length Iranging from the sliding surface 6 to the bottom 8 of a seal groove Y and length (a) ranging from the sliding surface 6 to a heel part 5 of the seal member X are set to 0.08≦a/I<0.4. With this constitution, if there is no backup, extrusion and nipping in the seal member X can be prevented from occurring, thus any hindrance to functions of a sliding member 9 is preventable.

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